Supplement to

CHEMOSPHERE

Lists of Contents and Author Index Volume 37, 1998



PERGAMON

EDITORS

CHEMISTRY AND BIOCHEMISTRY

Mr D. W. Kuehl

U.S. Environmental Protection Agency, Duluth, MN 55804, U.S.A.

Fax: (1) 218 720 5539; E-mail: kuehl.douglas@epamail.epa.gov

Professor Dr M. Oehme

Organic Analytical Chemistry, University of Basle, IWB/GSA, Neuhausstr 31, CH-4057 Basel, Switzerland Fax: (41) 61 639 2300

ECOTOXICOLOGY

Professor Dr J. P. Giesy
Department of Zoology, Michigan State University, MI
48824-1115, U.S.A.

Fax: (1) 517 432 2789; E-mail: Jgiesy@AOL.com

Professor W Klair

Fraunhofer-Institut für Umweltchemie und Ökotoxikologie, Grafschaft/Hochsauerland, D-57392 Schmallenberg, Germany

Fax: (49) 2972 30 2319; E-mail: profklein@iuct.fhg.de

Dr M. Yasuno

The University of Shiga Prefecture, School of Environmental Science, 2500 Hassaka, Hikone 522, Japan Fax: (81) 749 28 8463; E-mail: yasuno@ses.usp.ac.jp

TOXICOLOGY, PHARMACOKINETICS AND EPIDEMIOLOGY Professor S. Safe

Veterinary Physiology and Pharmacology, Texas A & M University, College Station, TX 77843, U.S.A. Fax: (1) 409 845 6544: E-mail: ssafe@vetmed.tamu.edu

ATMOSPHERIC CHEMISTRY AND GLOBAL CHANGE

Dr M. A. K. Khalil

Department of Physics, Portland State University, PO Box 751, Portland, OR 97207-0751, U.S.A. Fax: (1) 503 725 8550; E-mail: aslam@atmos.phy.pdx.edu

EDITORIAL BOARD

CHEMISTRY AND BIOCHEMISTRY

J. Albaigés, CID-CSIC, Barcelona, Spain

K. Ballschmiter, Universität Ulm, Ulm, Germany

R. E. Clement, Ministry of the Environment, Etobicoke, Ontario, Canada

D. W. Connell, Griffith University, Brisbane, Australia H. Fiedler, University of Bayreuth, Bayreuth, Germany

W. Giger, Swiss Federal Institute of Technology,
Dubendorf, Switzerland

H. P. Hagenmaier, University of Tübingen, Tübingen, Germany

O. J. Hao, University of Maryland at College Park, MD, U.S.A.

R. A. Hites, Indiana University, Bloomington, IN, U.S.A.

R. C. Lao, Environment Canada, Ottawa, Canada D. Lenoir, GSF Institut für Okologische Chemie,

Neuherberg, Germany

D. Mackay, University of Toronto, Toronto, Canada

A. A. Moghissi, PO Box 7166, Alexandria, VA, U.S.A. J. M. Novak, USDA Coast Plans SML, Water and Plant

Research Center, Florence, SC, U.S.A.

H. Parlar, Technische Universität München, Freising-Weihenstephan, Germany

C. Rappe, University of Umeå, Umeå, Sweden

A. Sabljić, Institute Rudjer Bošković, Zagreb, Croatia

P. R. Wallnöfer, Bayerische Landesanstalt für Ernährung, Munich, Germany

V. Zitko, Biological Station, St Andrews, Canada

ECOTOXICOLOGY

G. T. Ankley, United States Environmental Protection Agency, Duluth, MN, U.S.A.

S. M. Bartell, Senes Oak Ridge Inc., Oak Ridge, TN, U.S.A.

D. Calamari, Università degli Studi di Milano, Milan, Italy

R. T. Digiulio, Duke University, Durham, NC, U.S.A.

A. Fliedner, Fraunhofer-Institut für Umweltchemie und

Ökotoxikologie, Schmallenberg, Germany
P-D. Hansen, Technische Universität Berlin, Berlin, Germany

P. F. Landrum, Great Lakes Environmental Research

Laboratory, Ann Arbor, MI, U.S.A.

R. Nagel, Institut für Hydrobiologie, Dresden, Germany D. Tillitt, United States Department of the Interior, Columbia, MO, U.S.A.

TOXICOLOGY, PHARMACOKINETICS AND

EPIDEMIOLOGY

Y. Masuda, Daiichi College of Pharmaceutical Sciences, Fukuoka, Japan

W. Mücke, Technical University of Munich, Munich, Germany

H. Nakazawa, Hoshi University, Tokyo, Japan

Ch. Schlatter, University of Zurich, Schwerzenbach, Switzerland

M. van den Berg, University of Utrecht, Research Institute of Technology, Utrecht, The Netherlands

ATMOSPHERIC CHEMISTRY AND GLOBAL CHANGE

V. P. Aneja, North Carolina State University, Raleigh, NC, U.S.A.

P. Brimblecombe, University of East Anglia, Norwich, U.K. C. I. Davidson, Carnegie Mellon University, Pittsburgh, PA, U.S.A.

R. Harriss, University of New Hampshire, Durham, NH, U.S.A.

L. Husain, University of Albany, Albany, NY, U.S.A.

D. Kamman, The Woodrow Wilson School of Public 8

D. Kammen, The Woodrow Wilson School of Public & International Affairs, Princeton University, Princeton, NJ, U.S.A.

V. W. J. H. Kirchhoff, Instituto Nacional de Pesquisas Espaciais (INPE), São José dos Campos, S.P., Brazil H. Papen, Fraunhofer Institute for Atmospheric

Environmental Research, Garmisch-Partenkirchen, Germany

D. C. Parashar, National Physical Laboratory, New Delhi, India

S. A. Penkett, University of East Anglia, Norwich, U.K. R. A. Rasmussen, Oregon Graduate Institute, PO Box 91000 Portland, OR. U.S.A.

W. Seiler, Fraunhofer Institute for Atmospheric Environmental Research, Garmisch-Partenkirchen, Germany

LIST OF CONTENTS

Number 1

	V	Contributors to this issue
K. Oetjen and H. Kari	1	Levels of toxaphene indicator compounds in fish meal, fish oil and fish feed
M. Makino	13	Prediction of <i>n</i> -octanol/water partition coefficients of polychlorinated biphenyls by use of computer calculated molecular properties
B. Krauthacker, E. Reiner, A. Votava-Raić, D. Tješić-Drinković and D. Batinić	27	Organochlorine pesticides and PCBs in human milk collected from mothers nursing hospitalized children
G. Boberič, O. Bajt, B. Šket and J. Faganeli	33	Photochemical degradation of butyl acrylate in different aqueous media
M. Severinsen and T. Jager	41	Modelling the influence of terrestrial vegetation on the environmental fate of xenobiotics
B. Witter, W. Francke, S. Franke, HD. Knauth and G. Miehlich	63	Distribution and mobility of organic micropollutants in River Elbe floodplains
Lijun Jin, Jiayin Dai, Pan Guo, Liansheng Wang, Zhongbo Wei and Zheng Zhang	79	Quantitative structure-toxicity relationships for benz- aldehydes to <i>Daphnia magna</i>
R. M. Zablotowicz, M. A. Locke and R. J. Smeda	87	Degradation of 2,4-D and fluometuron in cover crop residues
S. A. Mohammed, D. L. Sorensen, R. C. Sims and J. L. Sims	103	Pentachlorophenol and phenanthrene biodegradation in creosote contaminated aquifer material
W. A. J. van Pul, F. A. A. M. de Leeuw, J. A. van Jaarsveld, M. A. van der Gaag and C. J. Sliggers	113	The potential for long-range transboundary atmospheric transport
W. J. Catallo	143	Polycyclic aromatic hydrocarbons in combustion residues from 1,3-butadiene
P. Kumarathasan, R. Otson and I. Chu	159	Application of an automated HS-GC method in partition coefficient determination for xylenes and ethylbenzene in rat tissues
F. X. Kong, C. L. Zhou and Y. Liu	179	Biochemical and cytological responses of ectomy- corrhizae in <i>Pinus massoniana</i> to artificial acid rain
		Number 2
	٧	Contributors to this issue
J. Kreuger and L. Törnqvist	189	Multiple regression analysis of pesticide occurrence in streamflow related to pesticide properties and quantities applied
L. Berthe-Corti, H. Jacobi, S. Kleihauer and I. Witte	209	Cytotoxicity and mutagenicity of a 2,4,6-trinitrotoluene (TNT) and hexogen contaminated soil in <i>S. typhimurium</i> and mammalian cells

J. Koistinen, M. Lehtonen, K. Tukia, M. Soimasuo, M. Lahtiperä and A. Oikari	219	Identification of lipophilic pollutants discharged from a Finnish pulp and paper mill
Yu-Chun Chiang, Pen-Chi Chiang and EE. Chang	237	Comprehensive approach to determining the physical properties of granular activated carbons
A. M. Petrovic, W. C. Barrett, IM. Larsson-Kovach, C. M. Reid and D. J. Lisk	249	Downward migration of metalaxyl fungicide in creeping bentgrass sand lysimeters as affected by organic waste, peat and zeolite amendments
Wang Jianlong, Liu Ping, Shi Hanchang and Qian Yi	257	Kinetics of biodegradation of di-n-butyl phthalate in continuous culture system
M. Herrchen	265	Perspective of the systematic and extended use of temporal and spatial aspects in LCA of long-lived products
P. Rautio, S. Huttunen and J. Lamppu	271	Seasonal foliar chemistry of Northern Scots pines under sulphur and heavy metal pollution
M. M. Socias-Viciana, M. C. Hermosin and J. Cornejo	289	Removing prometrone from water by clays and organic clays
A. Kahru, R. Reiman and A. Rätsep	301	The efficiency of different phenol-degrading bacteria and activated sludges in detoxification of phenolic leachates
K. Richterich, H. Berger and J. Steber	319	The 'two-phase closed bottle test'—a suitable method for the determination of 'ready biodegradability' of poorly soluble compounds
Yi Wang, Chunxia Wang and Zijian Wang	327	Uptake of moderately hydrophobic chlorophenols from water by semipermeable membrane devices (SPMDs) and by goldfish (<i>Crassius auratus</i>)
U. Klaus, S. Mohamed, M. Volk and M. Spiteller	341	Interaction of aquatic humic substances with anilazine and its derivatives: the nature of the bound residues
W. Bae, R. Abdullah and R. K. Mehra	363	Cysteine-mediated synthesis of CdS bionanocrystallites
A. Vidal	387	Erratum. Developments in solar photocatalysis for water purification

		Number 3
	V	Contributors to this issue
W. H. Gutenmann, G. J. Doss and D. J. Lisk	389	Selenium in onions grown in media amended with coal fly ashes collected with differing efficiencies
W. H. Gutenmann, C. M. Reid and D. J. Lisk	391	Mercury content of smelt in Cayuga Lake in Central New York State
Y. Kato, S. Flodström and L. Wärngård	393	Initiation and promotion of altered hepatic foci in female rats and inhibition of cell-cell communication by the imidazole fungicide prochloraz

C. Lindig	405	Proficiency testing for dioxin laboratories determination of polychlorinated dibenzo-p-dioxins and dibenzofurans in sewage sludge
S. Krause, V. Niedan and H. F. Schöler	421	N-(phenylsulfonyl)-glycine—a new contaminant in sewage- and surface water
J. She, M. X. Petreas, P. Visita, M. McKinney, F. J. Sy, J. J. Winkler, K. Hooper and R. D. Stephens	431	Congener-specific analysis of PCBs in human milk from Kazakhstan
T. Kaise, T. Sakurai, T. Saitoh, C. Matsubara, N. Takada-Oikawa and K. Hanaoka	443	Biotransformation of arsenobetaine to trimethylarsine oxide by marine microorganisms in a gill of clam Meretrix lusoria
K. M. Schenck, L. J. Wymer, B. W. Lykins Jr and R. M. Clark	451	Application of a Finnish mutagenicity model to drinking waters in the U.S.
M. A. Aston, M. H. Martin and A. W. Jackson	465	The use of heavy metal soil analysis for archaeological surveying
S. Ishiwata and M. Kamiya	479	Temperature dependence and related properties of beta-cyclodextrin inclusion effects on the fluorescence intensities of hydroxycoumarin-based pesticides
Gang Yu, Wanpeng Zhu and Zhihua Yang	487	Pretreatment and biodegradability enhancement of DSD acid manufacturing wastewater
R. Rojíčková-Padrtová, B. Maršálek and I. Holoubek	495	Evaluation of alternative and standard toxicity assays for screening of environmental samples: selection of an optimal test battery
Yu-Ling Wei	509	Effect of potassium hydroxide on PAH formation during toluene incineration
S. Krivobok, E. Miriouchkine, F. Seigle-Murandi and JL. Benoit-Guyod	523	Biodegradation of anthracene by soil fungi
R. S. Martin, S. E. Manahan and J. S. Morris	531	Fates of radioactive arsenic, cesium, strontium and organo-chlorine during the gasification of mixed wastes in the presence of organic matter
E. Esposito, S. M. Paulillo and G. P. Manfio	541	Biodegradation of the herbicide Diuron in soil by indigenous actinomycetes
L. Kimmel, D. Angerhöfer, U. Gill, M. Coelhan and H. Parlar	549	HRGC-ECD and HRGC-ECNI-SIM-HRMS quantification of toxaphene residues by six environmentally relevant chlorobornanes as standard
M. Markuszewski, J. D. Krass, T. Hippe, B. Jastorff and R. Kaliszan	559	Separation of nitroaromatics and their transformation products in soil around ammunition plants: new high performance liquid chromatographic charge transfer stationary phases
E. Romero, G. Dios, M. D. Mingorance, M. B. Matallo, A. Peña and F. Sánchez-Rasero	577	Photodegradation of mecoprop and dichlorprop on dry, moist and amended soil surfaces exposed to sunlight
Z. M. Li, P. J. Shea and S. D. Comfort	591	Corrigendum: Nitrotoluene destruction by UV-catalyzed Fenton oxidation

Number 4

	٧	Contributors to this issue
E. E. Chang, P. C. Chiang and T. F. Lin	593	Development of surrogate organic contaminant parameters for source water quality standards in Taiwan, ROC
M. Picer	607	Simple spectrofluorometry methods for estimating petroleum hydrocarbons levels in various sea benthic organisms
L. Guilhermino, A. M. V. M. Soares, A. P. Carvalho and M. C. Lopes	619	Acute effects of 3,4-dichloroaniline on blood of male Wistar rats
E. U. Ramos, C. Vermeer, W. H. J. Vaes and J. L. M. Hermens	633	Acute toxicity of polar narcotics to three aquatic species (Daphnia magna, Poecilia reticulata and Lymnaea stagnalis) and its relation to hydrophobicity
F. Calevro, C. Filippi, P. Deri, C. Albertosi and R. Batistoni	651	Toxic effects of aluminium, chromium and cadmium in intact and regenerating freshwater planarians
A. K. Rath, B. Ramakrishnan, A. K. Rath, S. Kumaraswamy, K. Bharati, P. Singla and N. Sethunathan	661	Effect of pesticides on microbial biomass of flooded soil
R. P. A. van Wijngaarden, S. J. H. Crum, K. Decraene, J. Hattink and A. van Kammen	673	Toxicity of Derosal (active ingredient carbendazim) to aquatic invertebrates
CJ. G. Jou and H. S. Tai	685	Application of granulated activated carbon packed-bed reactor in microwave radiation field to treat BTX
J. C. Sanchez-Hernandez, M. C. Fossi, C. Leonzio, S. Focardi, R. Barra, J. F. Gavilan and O. Parra	699	Use of biochemical biomarkers as a screening tool to focus the chemical monitoring of organic pollutants in the Biobio river basin (Chile)
D. Young, M. Becerra, D. Kopec and S. Echols	711	GC/MS analysis of PCB congeners in blood of the harbor seal <i>Phoca vitulina</i> from San Francisco Bay
M. E. Soltan	735	Characterisation, classification, and evaluation of some ground water samples in upper Egypt
Liping Wei, Hongxia Yu, Yue Sun, Jianfang Fen and Liansheng Wang	747	The effects of three sulfonylurea herbicides and their degradation products on the green algae <i>Chlorella pyrenoidosa</i>
F. Gagné and C. Blaise	753	Differences in the measurement of cytotoxicity of complex mixtures with rainbow trout hepatocytes and fibroblasts
N. Dírílgen	771	Effects of pH and chelator EDTA on Cr toxicity and accumulation in Lemna minor
M. Gupta, R. D. Tripathi, U. N. Rai and P. Chandra	785	Role of glutathione and phytochelatin in <i>Hydrilla</i> verticillata (I.f.) royle and <i>Vallisneria spiralis</i> L. under mercury stress

Number 5

	Number 5
v	Contributors to this issue
801	Human health perspective on environmental exposure to hydrazines: a review
845	Assessment of the acute toxicity of crude oils in soils using earthworms, Microtox®, and plants
861	The effect of salinity on binding of Cd, Cr, Cu and Zn to dissolved organic matter
875	Oxidation of cysteamine induced by gas-phase radicals from combustion smoke of poly(methyl methacrylate)
885	Collection of two-ring aromatic hydrocarbons, chlorinated phenols, guaiacols, and benzenes from ambient air using polyurethane foam/Tenax-GC cartridges
899	The Photo-Fenton method—degradation of nitrogen containing organic compounds
911	Internal lethal concentration and internal lethal volume fraction of chlorobenzenes in mosquito fish (Gambusia affinis)
925	Palladium-catalyzed reductive dehalogenation of dissolved chlorinated aliphatics using electrolytically- generated hydrogen
937	Spatial distribution of butyltin and phenyltin compounds on the Huelva coast (southwest Spain)
951	Polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans in shellfishes from south coast of Korea
961	Reaction kinetics of UV-decolourization for dye materials
975	Photooxidation of prometryn and prometon in aqueous solution by hydrogen peroxide on photo-catalytic membranes immobilising titanium dioxide
991	Mercury and organochlorine exposure from fish consumption in Hong Kong
	Number 6
V	Contributors to this issue
1017	Chemistry of the biosynthesis of halogenated methanes: C1-organohalogens as pre-industrial chemical stressors in the environment?
1033	Photomineralization of n -alkanoic acids in aqueous solution by photocatalytic membranes. Influence of radiation power
	801 845 861 875 885 899 911 925 937 951 961 975 991

Jiunn-Fwu Lee, Pao-Mei Liao, Dyi-Hwa Tseng and Pi-Tsui Wen	1045	Behavior of organic polymers in drinking water purification
C. Maqueda, E. Morillo, T. Undabeytia and F. Martín	1063	Sorption of glyphosate and Cu(II) on a natural fulvic acid complex: mutual influence
A. A. Keeling and G. L. F. Cater	1073	Toxicity of copper, lead, nickel and zinc in agar culture to aerobic, diazotrophic bacteria extracted from wastederived compost
T. C. Schmidt, K. Steinbach, E. von Löw and G. Stork	1079	Highly polar metabolites of nitroaromatic compounds in ammunition wastewater
R. Celis, E. Barriuso and S. Houot	1091	Effect of liquid sewage sludge addition on atrazine sorption and desorption by soil
B. Ozretić S. Petrović and M. Krajnović-Ozretić	1109	Toxicity of TBT-based paint leachates on the embryonic development of the sea urchin <i>Paracentrotus lividus</i> Lam
AL. Rantalainen, M. G. Ikonomou and I. H. Rogers	1119	Lipid-containing semipermeable membrane devices (SPMDs) as concentrators of toxic chemicals in the Lower Fraser River, Vancouver, British Columbia
M. Winkler, G. Kopf, C. Hauptvogel and T. Neu	1139	Fate of artificial musk fragrances associated with suspended particulate matter (SPM) from the River Elbe (Germany) in comparison to other organic contaminants
J. V. Cizdziel, V. F. Hodge and S. H. Faller	1157	Plutonium anomalies in attic dust and soils at locations surrounding the Nevada test site
Jingwen Chen, W. J. G. M. Peijnenburg, Xie Quan, Yazhi Zhao, Daming Xue and Fenglin Yang	1169	The application of quantum chemical and statistical technique in developing quantitative structure-property relationships for the photohydrolysis quantum yields of substituted aromatic halides
Wang-Hsien Ding and Jia-Lin Wang	1187	Spatial concentration profiles of C2-C6 hydrocarbons in the atmosphere of Taipei metropolitan area
M. A. K. Khalil and R. A. Rasmussen	1197	Using ambient concentrations as proxy for methane flux measurements from rice fields
B. R. Larsen, M. Lahaniati, A. Calogirou and D. Kotzias	1207	Atmospheric oxidation products of terpenes: a new nomenclature
		Number 7
	V	Contributors to this issue
A. C. Belfroid and D. T. H. M. Sijm	1221	Influence of soil organic matter content on elimination rates of hydrophobic compounds in the earthworm: possible causes and consequences
J. C. M. Bordado and J. F. P. Gomes	1235	Characterisation of non-condensable sulphur containing gases from kraft pulp mills
G. Hilbert, L. Lillemark, S. Balchen and C. S. Højskov	1241	Reduction of organochlorine contaminants from fish oil during refining
K. C. Donnelly, L. D. Claxton, H. J. Huebner and J. L. Capizzi	1253	Mutagenic interactions of model chemical mixtures

Biosorption characterization of herbicides, 2,4-D and atrazine, and two chlorophenols on fungal mycelium The bioaccumulation pattern of organochlorine residues in Lanice conchilega (Polychaeta) and its geographical variation between the English Channel and the German Bight Solubilization of polycyclic aromatic hydrocarbons by β-cyclo-dextrin and carboxymethyl-β-cyclodextrin Occurrence of pesticides in Danish shallow ground water The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Effects of dissolved organic matter (DOM) on the bioconcentration of organic chemicals in aquatic organisms — a review Vanadium toxicity to three marine invertebrates larvae: Crassostrea gigas, Paracentrotus lividus and Artemia salina
in Lanice conchilega (Polychaeta) and its geographical variation between the English Channel and the German Bight Solubilization of polycyclic aromatic hydrocarbons by β-cyclo-dextrin and carboxymethyl-β-cyclodextrin Occurrence of pesticides in Danish shallow ground water The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Effects of dissolved organic matter (DOM) on the bioconcentration of organic chemicals in aquatic organisms — a review Vanadium toxicity to three marine invertebrates larvae: Crassostrea gigas, Paracentrotus lividus and Artemia
cyclo-dextrin and carboxymethyl-β-cyclodextrin Occurrence of pesticides in Danish shallow ground water The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Effects of dissolved organic matter (DOM) on the bioconcentration of organic chemicals in aquatic organisms — a review Vanadium toxicity to three marine invertebrates larvae: Crassostrea gigas, Paracentrotus lividus and Artemia
The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Effects of dissolved organic matter (DOM) on the bioconcentration of organic chemicals in aquatic organisms — a review Vanadium toxicity to three marine invertebrates larvae: Crassostrea gigas, Paracentrotus lividus and Artemia
alkyl lactate esters and lactate salts Effects of dissolved organic matter (DOM) on the bioconcentration of organic chemicals in aquatic organisms — a review Vanadium toxicity to three marine invertebrates larvae: Crassostrea gigas, Paracentrotus lividus and Artemia
bioconcentration of organic chemicals in aquatic organisms — a review Vanadium toxicity to three marine invertebrates larvae: Crassostrea gigas, Paracentrotus lividus and Artemia
Crassostrea gigas, Paracentrotus lividus and Artemia
Polycyclic aromatic hydrocarbons in the atmospheric environment of Brisbane, Australia
Correlation between whole blood cholinesterase activity and cerebral cortex cholinesterase activity in rats treated with parathion
Effects of temperature and sample amount on the electron capture negative ion mass spectra of polychloro-n-alkanes
Corrigendum: A simplified modeling approach using microbial growth kinetics for predicting exposure concentrations of organic chemicals in treated wastewater effluents

	٧	Contributors to this issue
H. R. Rogers and S. D. W. Comber	1413	Solid phase micro-extraction (SPME) fibre performance in turbid aqueous samples
Jiayin Dai, Lijun Jin, Liansheng Wang and Zheng Zhang	1419	Determination and estimation of water solubilities and octanol/water partition coefficients for derivates of benzanilides
R. A. Abramovitch, Huang BangZhou M. Davis and L. Peters	, 1427	Decomposition of PCBs and other polychlorinated aromatics in soil using microwave energy

Chih-yu Chen and Shian-chee Wu	1437	The influence of relative humidity on the adsorption of toluene by soils—interpretation with the adsorption energy distribution functions
J. Loponen, V. Ossipov, K. Lempa, E. Haukioja and K. Pihlaja	1445	Concentrations and among-compound correlations of individual phenolics in white birch leaves under air pollution stress
R. E. Alcock, P. A. Behnisch, K. C. Jones and H. Hagenmaier	1457	Dioxin-like PCBs in the environment—human exposure and the significance of sources
Sung-Ho Kong, R. J. Watts and Jin-Ho Choi	1473	Treatment of petroleum-contaminated soils using iron mineral catalyzed hydrogen peroxide
R. Nakagawa and Y. Yumita	1483	Change and behavior of residual mercury in paddy soils and rice of Japan
M. Wirts, W. Lorenz and M. Bahadir	1489	Does co-combustion of PVC and other plastics lead to enhanced formation of PCDD/F?
L. Marsili, M. C. Fossi, G. Notarbartolo Di Sciara, M. Zanardelli, B. Nani, S. Panigada and S. Focardi	1501	Relationship between organochlorine contaminants and mixed function oxidase activity in skin biopsy specimens of Mediterranean fin whales (<i>Balaenoptera physalus</i>)
M. A. Schlacher-Hoenlinger and T. A. Schlacher	1511	Differential accumulation patterns of heavy metals among the dominant macrophytes of a Mediterranean seagrass meadow
M. A. Kähkönen and T. Kairesalo	1521	The effects of nickel on the nutrient fluxes and on the growth of <i>Elodea canadensis</i>
Th. Pütz, W. Mittelstaedt and F. Führ	1531	Seasonal changes of [phenyl-U-14C] methabenzthiazur on loads in soil solution under practical farming conditions
S. Cavanna, E. Garatti, E. Rastelli and G. P. Molinari	1547	Adsorption and desorption of bensulfuron-methyl on Italian paddy field soils
G. Ohlenbusch, S. Hesse and F. H. Frimmel	1557	Effects of ozone treatment on the soil organic matter on contaminated sites
Zhang Tong, Zhao Qingxiang, Huang Hui, Li Qin, Zhang Yi and Qi Min	1571	Kinetic study on the removal of toxic phenol and chlorophenol from waste water by horseradish peroxidase
D. J. Karen, B. M. Joab, J. M. Wallin and K. A. Johnson	1579	Partitioning of chlorpyrifos between water and an aquatic macrophyte (Elodea densa)
C. P. Ferrari, P. Kaluzny, A. Roche, V. Jacob and P. Foster	1587	Aromatic hydrocarbons and aldehydes in the atmosphere of Grenoble, France
G. Lammel and G. Metzig	1603	On the occurence of nitrite in urban fogwater
R. Garcia and E. Millán	1615	Assessment of Cd, Pb and Zn contamination in roadside soils and grasses from Gipuzkoa (Spain)

SPECIAL ISSUE—CHLORINATED DIOXINS AND RELATED COMPOUNDS 1996

Numbers 9-12

	xi	Contributors to this issue
A. Brouwer, U. G. Ahlborg, F. X. R. van Leeuwen and M. M. Feeley	1627	Risk assessment Report of the WHO working group on the assessment of health risks for human infants from exposure to PCDDs, PCDFs and PCBs
H. Fiedler, K. Cooper, S. Bergek, M. Hjelt, C. Rappe, M. Bonner, F. Howell, K. Willett and S. Safe	1645	Food PCDD, PCDF, and PCB in farm-raised catfish from south- east United States—concentrations, sources and CYP1A induction
N. Harrison, S. Wearne, M. G. de M. Gem, A. Gleadle, J. Startin, S. Thorpe, C. Wright, M. Kelly, C. Robinson, S. White, D. Hardy and V. Edinburgh	1657	Time trends in human dietary exposure to PCDDs, PCDFs and PCBs in the UK
A. A. Lovett, C. D. Foxall, C. S. Creaser and D. Chewe	1671	PCB and PCDD/DF concentrations in egg and poultry meat samples from known urban and rural locations in Wales and England
R. Malisch	1687	Update of PCDD/PCDF-intake from food in Germany
V. Maystrenko, E. Kruglov, Z. Amirova and R. Khamitov	1699	Polychlorinated dioxin and dibenzofuran levels in the environment and food from the Republic of Bashkortostan, Russia
M. N. Jacobs, D. Santillo, P. A. Johnston, C. L. Wyatt and M. C. French	1709	Organochlorine residues in fish oil dietary supplements: comparison with industrial grade oils
A. Schecter, M. Dellarco, O. Päpke and J. Olson	1723	A comparison of dioxins, dibenzofurans and coplanar PCBs in uncooked and broiled ground beef, catfish and bacon
K. Abraham, O. Päpke, A. Gross, O. Kordonouri, S. Wiegand, U. Wahn and H. Helge	1731	Toxicology: Humans Time course of PCDD/PCDF/PCB concentrations in breast-feeding mothers and their infants
D. Heederik, M. Hooiveld and H. B. Bueno-De-Mesquita	1743	Modelling of 2,3,7,8-tetrachlorodibenzo-p-dioxin levels in a cohort of workers with exposure to phenoxy herbicides and chlorophenols
D. F. Kaioumova and L. Kh. Khabutdinova	1755	Cytogenetic characteristics of herbicide production workers in Ufa
C. Lutter, V. Iyengar, R. Barnes, T. Chuvakova, G. Kazbekova and T. Sharmanov	1761	Breast milk contamination in Kazakhstan: implications for infant feeding
Y. Masuda, A. Schecter and O. Päpke	1773	Concentrations of PCBs, PCDFs and PCDDs in the blood of Yusho patients and their toxic equivalent contribution

J. Nagayama, H. Tsuji, T. lida, H. Hirakawa, T. Matsueda, K. Okamu M. Hasegawa, K. Sato, HY. Ma, T. Yanagawa, H. Igarashi, J. Fukushig and T. Watanabe		Postnatal exposure to chlorinated dioxins and related chemicals on lymphocyte subsets in Japanese breast-fed infants
J. Nagayama, K. Okamura, T. lida, H. Hirakawa, T. Matsueda, H. Tsuji, M. Hasegawa, K. Sato, HY. Ma, T. Yanagawa, H. Igarashi, J. Fukushi and T. Watanabe	1789 ge	Postnatal exposure to chlorinated dioxins and related chemicals on thyroid hormone status in Japanese breast-fed infants
A. Polder, G. Becher, T. N. Savinova and J. U. Skaare	1795	Dioxins, PCBs and some chlorinated pesticides in human milk from the Kola Peninsula, Russia
A. Schecter, J. J. Ryan and O. Päpke	1807	Decrease in levels and body burden of dioxins, dibenzofurans, PCBs, DDE, and HCB in blood and milk in a mother nursing twins over a thirty-eight month period
A. Schecter, I. Kassis and O. Päpke	1817	Partitioning of dioxins, dibenzofurans, and coplanar PCBs in blood, milk, adipose tissue, placenta and cord blood from five American women
P. Schrey, J. Wittsiepe, P. Mackrodt and F. Selenka	1825	Human fecal PCDD/F-excretion exceeds the dietary intake
G. W. van der Molen, S. A. L. M. Kooijman, J. E. Michalek and W. Slob	1833	The estimation of elimination rates of persistent compounds: a re-analysis of 2,3,7,8-tetrachloro-dibenzo-p-dioxin levels in Vietnam veterans
N. Weisglas-Kuperus	1845	Neurodevelopmental, immunological and endocrino- logical indices of perinatal human exposure to PCBs and dioxins
ML. Yu, JW. Hsin, CC. Hsu, WC. Chan and Y. L. Guo	1855	The immunologic evaluation of the Yucheng children
S. Donat and J. Abel	1867	Toxicology Animals Analysis of gene expression in lung and thymus of TCDD treated C57BL/6 mice using differential display RT-PCR
K. R. Alonso, M. M. Peden-Adams, J. Y. Liu, C. Charbonneau, D. Henshel and R. L. Dickerson	1873	Effects of <i>in ovo</i> exposure to 2,3,7,8-TCDD on F ₁ generation adult chickens (<i>Gallus gallus</i>)
J. K. Huwe, V. J. Feil, G. L. Larsen and C. Wiener	1885	Metabolism and disposition of 1,4,7,8-tetrachloro-dibenzo-p-dioxin in rats
N. Koga, N. Kikuichi, T. Kanamaru, H. Kuroki, K. Matsusue, C. Ishida, N. Ariyoshi, K. Oguri and H. Yoshimu	1895 ura	Metabolism of 2,3',4',5-tetrachlorobiphenyl by cytochrome P450 from rats, guinea pigs and hamsters
J. N. Matter, C. S. McMurry, A. B. Anthony and R. L. Dickerson	1905	Development and implementation of endocrine biomarkers of exposure and effects in American alligators (Alligator mississippiensis)

J. R. Parsons, J. A. de Bruijne and A. R. Weiland	1915	Biodegradation pathway of 2-chlorodibenzo-p-dioxin and 2-chlorodibenzofuran in the biphenyl-utilising strain JB1
M. M. Peden-Adams, K. Alonso, C. Godard, S. Skipper, W. Mashburn, J. Hoover, C. Charbonneau, D. Hensh and R. Dickerson		Effects of environmentally relevant concentrations of 2,3,7,8-TCDD on domestic chicken immune function and CYP450 activity: F ₁ generation and egg injection studies
S. A. van der Plas, J. de Jongh, M. Faassen-Peters, G. Scheu, M. van den Berg and A. Brouwer	1941	Toxicokinetics of an environmentally relevant mixture of dioxin-like PHAHs with or without a non-dioxin-like PCB in a semi-chronic exposure study in female Sprague Dawley rats
W. F. Carroll, T. C. Berger, F. E. Borrelli, P. J. Garrity, R. A. Jacob J. W. Lewis, R. L. McCreedy, D. R. Tuhovak and A. F. Weston	1957 s	Characterization of emissions of dioxins and furans from ethylene dichloride (EDC), vinyl chloride (VCM) and polyvinylchloride (PVC) manufacturing facilities in the United States. I. resin, treated wastewater, and ethylene dichloride
W. J. Gillespie and J. D. Abbott	1973	Progress in reducing the TCDD/TCDF content of effluents, pulps and wastewater treatment sludges from the manufacturing of bleached chemical pulp
R. Götz, B. Steiner, P. Friesel, K. Roch, F. Walkow, V. Maaß, H. Reincke and B. Stachel	1987	Dioxin (PCDD/F) in the river Elbe—investigations of their origin by multivariate statistical methods
C. Klimm, KW. Schramm, B. Henkelmann, D. Martens and A. Kettrup	2003	Formation of octa- and heptachlorodibenzo-p-dioxins during semi anaerobic digestion of sewage sludge
T. Launhardt, A. Strehler, R. Dumler-Gradl, H. Thoma and O. Vierle	2013	PCDD/F- and PAH-emission from house heating systems
J. Lulek	2021	Levels of polychlorinated biphenyls in some waste motor and transformer oils from Poland
H. G. Rigo and A. J. Chandler	2031	Is there a strong dioxin:chlorine link in commercial scale systems?
S. Sakai, S. Urano and H. Takatsuki	2047	Leaching behavior of persistent organic pollutants (POPs) in shredder residues
M. Schneider, L. Stieglitz, R. Will and G. Zwick	2055	Formation of polychlorinated naphthalenes on fly ash
D. Sedlak, R. Dumler-Gradle, H. Thoma and O. Vierle	2071	Polyhalogenated dibenzo-p-dioxins and dibenzofurans in the exhaust air during textile processings
B. van Bavel, P. Andersson, N. Takeda and C. Rappe	2077	Results from the second round of the international intercalibration on PCDDs, PCDFs and PCBs in a fly ash extract
F. J. M. Verhagen, H. J. Swarts, J. B. P. A. Wijnberg and J. A. Field	2091	Organohalogen production is a ubiquitous capacity among basidiomycetes
T. Webster and P. Connett	2105	Dioxin emission inventories and trends: the importance of large point sources

2119	Atmospheric impact assessment and monitoring of dioxin emissions of municipal solid waste incinerators in Portugual
2127	Levels of PCDD/Fs in soil samples in the vicinity of a municipal solid waste incinerator
2139	Partition constants of chlorinated dibenzofurans and dibenzo-p-dioxins
2153	PCDD/F, PCB and PAH content of Brazilian compost
2163	Distribution of polychlorinated dibenzo-p-dioxins and dibenzofurans in various sizes of airborne particles
2175	Relationships between dioxins in soil, air, ash, and emissions from a municipal solid waste incinerator emitting large amounts of dioxins
2201	PCBs in cod (Gadus morhua), flounder (Platichthys flesus), blue mussel (Mytilus edulis) and brown shrimp (Crangon crangon) from the Belgian continental shelf: relation to biological parameters and trend analysis
2213	Origin attribution of polychlorinated dibenzo-p-dioxins and dibenzofurans in sediment and soil from a Japanese freshwater lake area through congener-specific data analysis
2227	PCDD/PCDF on land around an industrial site and identification of source
2241	Model simulation of environmental profile transformation and fate of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans by the multimedia environmental fate model
2253	Atmospheric pentachlorophenol concentrations in relation to air temperature at five Canadian locations
2263	Combustion Influence of elemental sulfur on the de-novosynthesis of organochlorine compounds from residual carbon on fly ash
2281	PCDDs and PCDFs concentration in combustion gases and bottom ash from incineration of hospital wastes in Poland
2295	PCDD/F behavior in wet scrubbing systems of waste incineration plants
2301	Full-scale plant study on low temperature thermal dechlorination of PCDDs/PCDFs in fly ash
2311	Dioxin emission behavior in MSW incinerator designed after Japanese guidelines for controlling dioxin
2317	Treatment of PCB-contaminated soil in a pilot-scale continuous decomposition system
	2139 2153 2163 2175 2201 2213 2227 2241 2253 2263 2281 2295 2301 2311

H. J. Fell and M. Tuczek	2329	Removal of dioxins and furans from flue gases by non-flammable adsorbents in a fixed bed
E. Vončina and T. Šolmajer	2337	Thermolysis on aluminum oxides chemisorbed 3-chlorophenol as example for the fly ash mediated surface catalysis reaction
H. Sun, H. Felix, A. Nasciuti, Y. Herieti and W. Hoffelner	2353	Reduction of NO/NO ₂ & SO ₂ and destruction of VOCs & PCDD/F in industrial flue gas by electrical discharge
H. Oser, R. Thanner and HH. Grotheer	2363	Analysis Continuous monitoring of ultratrace products of incomplete combustion during incineration with a novel mobile jet-REMPI device
S. H. Hüttenhain and C. Hoffmann	2377	Separation and clean-up effects in medium pressure liquid extraction
N. Kannan, G. Petrick, R. Bruhn and D. E. Schulz-Bull	2387	Structure-dependent separation method for non- ortho PCBs with matrix-integrated quality control: a multidimensional analytical approach
W. Körner, V. Hanf, W. Schuller, H. Bartsch, M. Zwirner and H. Hagenmaier	2397	Validation and application of a rapid in vitro assay for assessing the estrogenic potency of halogenated phenolic chemicals
K. Mohr, Ch. Nonn, J. Kolenda, H. Gass, D. Menke and J. Jager	2411	Innovations in continuous measuring methods for the determination of PCDD/PCDF in stack gas of incinerators and thermal processes
R. Van Cleuvenbergen, G. N. Kramer and E. A. Maier	2427	Fly ash CRM 490: a new BCR certified reference material for PCDD/PCDF analysis
W. Vetter, M. Weichbrodt, K. Hummert, D. Glotz and B. Luckas	2441	Combined microwave-assisted extraction and gel permeation chromatography for the determination of chlorinated hydrocarbons in seal blubber and cod livers
S. Atuma, A. Bergh, L. Hansson, A. Wicklund-Glynn and H. Johnsson	2453	Non dioxins Non-ortho PCB levels in various fish species from the east and west coast of Sweden
K. Bester, S. Biselli, T. Ellerichmann, H. Hühnerfuss, K. Möller, G. Rimkus and M. Wolf		Chlorostyrenes in fish and sediment samples from the river Elbe
J. Falandysz, L. Strandberg, B. Strandberg and C. Rappe	2475	Polychlorinated naphthalenes in three-spined stickleback Gasterosteus aculeatus from the Gulf of Gdańsk
R. Kallenborn, S. Planting, JE. Haugen and S. Nybø	2491	Congener-, isomer- and enantiomer-specific distribution of organochlorines in dippers (<i>Cinclus cinclus</i> L.) from southern Norway
U. Klobes, W. Vetter, B. Luckas, K. Skírnisson and J. Plötz	2503	Levels and enantiomeric ratios of α -HCH, oxychlordane, and PCB 149 in blubber of harbour seals (<i>Phoca vitulina</i>) and grey seals (<i>Halichoerus grypus</i>) from Iceland and further species
B. Strandberg, L. Strandberg, PA. Bergqvist, J. Falandysz and C. Rappe	2515	Concentrations and biomagnification of 17 chlordane compounds and other organochlorines in harbour porpoise (<i>Phocoena phocoena</i>) and herring from the southern Baltic Sea

M. Tkalec, Ž. Vidaković-Cifrek and

I. Regula

2703

The effect of oil industry 'high density brines' on duck-

weed Lemna minor L.

W. Vetter and G. Scherer 2527 Variety, structures, GC properties, and persistence of compounds of technical toxaphene (CTTs) D. L. Swackhamer, R. F. Pearson 2547 Toxaphene in the Great Lakes and S. P. Schottler Number 13 Contributors to this issue Ruey-an Doong and Wen-huei Chang 2563 Photoassisted iron compound catalytic degradation of organophosphorous pesticides with hydrogen peroxide D. Bernds, D. Wübben and 2573 Bioaccumulation of trace metals in polychaetes from the G.-P. Zauke German Wadden Sea: evaluation and verification of toxicokinetic models Decomposition of monocrotophos in aqueous solution Young Ku and In-Liang Jung 2589 by UV irradiation in the presence of titanium dioxide K. Hauff, R. G. Fischer and 2599 Determination of C1-C5 alkyl nitrates in rain, snow, white frost, lake, and tap water by a combined codistillation K. Ballschmiter head-space gas chromatography technique. Determination of Henry's law constants by head-space Jyh-Cherng Chen, Ming-Yen Wey 2617 The adsorption of heavy metals by different sorbents and Yao-Chi Lin under various incineration conditions E. O. Henriksen, G. W. Gabrielsen 2627 Validation of the use of blood samples to assess tissue and J. U. Skaare concentrations of organochlorines in glaucous gulls, Larus hyperboreus L. Wolska, C. Olszewska, M. Turska, 2645 Volatile and semivolatile organo-halogen trace analysis B. Zygmunt and J. Namieśnik in surface water by direct aqueous injection GC-ECD S. Sinkkonen, T. Rantio, 2653 Chlorinated acetic and propionic acids in pine needles J. Paasivirta, M. Alanko and from industrial areas M. Lahtiperä J. C. Friis, C. Holm and 2665 Evaluation of elemental composition of algal biomass as B. Halling-Sørensen toxical endpoint W. M. De Coen, M. L. Vangheluwe 2677 The use of biomarkers in Daphnia magna toxicity and C. R. Janssen testing-III. Rapid toxicity testing of pure chemicals and sediment pore waters using ingestion and digestive enzyme activity E. M. da Silva, A. M. V. M. Soares, 2695 Ecotoxicological responses of isolated mitochondrial J. F. J. S. Correia, E. M. D. C. Marchante, C. B. A. Chastinet and A. J. M. Moreno systems to complex effluents. Are they worthwhile?

SPECIAL ISSUE—INTEGRATED ECOTOXICOLOGY

Numbers 14/15

M. Camatini	хì	Foreword
M. Camatini	xiii	Preface
	xv	Acknowledgements
M. Camatini, P. Bonfanti, A. Colombo and C. Urani	2717	Molecular and cellular effects of xenobiotics Molecular approaches to evaluate pollutants
C. Conte, I. Mutti, P. Puglisi, A. Ferrarini, G. Regina, E. Maestri and N. Marmiroli	2739	DNA fingerprinting analysis by a PCR based method for monitoring the genotoxic effects of heavy metals pollution
P. Bonfanti, A. Colombo and M. Camatini	2751	Identification of a multixenobiotic resistance mechanism in <i>Xenopus laevis</i> embryos
P. Monciardini, D. Podini and N. Marmiroli	2761	Exotic gene expression in transgenic plants as a tool for monitoring environmental pollution
F. Regoli, G. W. Winston, V. Mastrangelo, G. Principato and S. Bompadre	2773	Total oxyradical scavenging capacity in mussel <i>Mytilus</i> sp. as a new index of biological resistance to oxidative stress
C. Urani, M. Doldi, S. Crippa and M. Camatini	2785	Human-derived cell lines to study xenobiotic metabolism
L. Viganò, A. Arillo, C. Falugi and F. Melodia	2797	Histochemical and biochemical markers in trout larvae exposed to river sediments
N. Dell'Orto, D. Cantelli and C. Urani	2809	Cellular targets in response to dioxin exposure
M. Ciccotelli, S. Crippa and A. Colombo	2823	Bioindicators or toxicity assessment of effluents from a wastewater treatment plant
G. Ewald	2833	Chlorinated fatty acids—environmental pollutants with intriguing properties
V. Notarianni, M. Calliera, P. Tremolada, A. Finizio and M. Vighi	2839	Biomonitoring PCB distribution in soil and vegetation from different areas in northern Italy
G. Crosa, L. Yameogo, D. Calamari and J. M. Hougard	2847	Long term quantitative ecological assessment of insecticides treatments in four African rivers: a methodological approach
C. Terzaghi, M. Buffagni, D. Cantelli, P. Bonfanti and M. Camatini	2859	Physical-chemical and ecotoxicological evaluation of water based drilling fluids used in Italian off-shore activities
G. F. Crosta and M. Dotti	2873	Volatile halocarbons in a drinking water supply system: forecasting contamination values and estimating health risk
D. Rossi and M. Beltrami	2885	Sediment ecological risk assessment: in situ and laboratory toxicity testing of Lake Orta sediments

L. Guzzella	2895	Comparison of test procedures for sediment toxicity evaluation with Vibrio fischeri bacteria
M. Camusso, W. Martinotti, R. Balestrini and L. Guzzi	2911	C and N stable isotopes and trace metals in selected organisms from the river Po delta
R. M. Brotheridge, K. E. Newton and S. W. Evans	2921	Presence of a parasitic nematode (<i>Eustrongylidies</i> sp.) in brown trout (<i>Salmo trutta</i>) from a heavy metal contaminated aquatic ecosystem
J. Bierkens, G. Klein, P. Corbisier, R. Van Den Heuvel, L. Verschaeve, R. Weltens and G. Schoeters	2935	Comparative sensitivity of 20 bioassays for soil quality
M. J. Cerejeira, T. Pereira and A. Silva-Fernandes	2949	Use of new microbiotests with Daphnia magna and Selenastrum capricornutum immobilized forms
L. Migliore, C. Civitareale, S. Cozzolino, P. Casoria, G. Brambilla and L. Gaudio	2957	Laboratory models to evaluate phytotoxicity of sulphadimethoxine on terrestrial plants
M. A. Sabatini, L. Rebecchi, C. Cappi, A. Guidi, G. Dinelli, A. Vicari and R. Bertolani	2963	Side effects of the herbicide triasulfuron on collembola under laboratory conditions
B. Sosak-Świderska, D. Tyrawska and B. Maślikowska	2975	Microalgal ecotoxicity test with 3,4-dichloroaniline
P. Galli, G. Crosa and A. Occhipinti Ambrogi	2983	Heavy metals concentrations in acanthocephalans parasites compared of their fish host
B. Sosak-Świderska, D. Tyrawska and D. Dzido	2989	Daphnia magna ecotoxicity test with parathion
A. Morale, L. Coniglio, C. Angelini, G. Cimoli, A. Bolla, D. Alleteo, P. Russo and C. Falugi	3001	Biological effects of a neurotoxic pesticide at low concentrations on sea urchin early development. A terathogenic assay
F. Calevro, S. Campani, M. Ragghianti, S. Bucci and G. Mancino	3011	Tests of toxicity and teratogenicity in biphasic vertebrates treated with heavy metals (Cr3+, Al3+, Cd2+)
M. G. Corradi, G. Gorbi, H. M. Abd-El-Monem, A. Torelli and M. Bassi	3019	Exudates from the wild type and a Cr-tolerant strain of Scenedesmus acutus influence differently Cr(VI) toxicity to algae
C. Vismara	3027	Effects of methanol, ethanol and N-propanol on development of Artemia salina cysts
F. Cima, M. G. Marin, V. Matozzo, L. Da Ros and L. Ballarin	3035	Immunotoxic effects of organotin compounds in Tapes philippinarum

AUTHOR INDEX

Abdullah R.	363	Benoit P.	1271
Abramovitch R. A.	1427	Benoit-Guyod JL.	523
Adriaens D.	1475	Berger H.	319
Akutsu Y.	875	Bernds D.	2573
Alanko M.	2653	Berthe-Corti L.	209
Albertosi C.	651	Bertolani R.	2963
Alcock R. E.	1457	Bharati K.	661
Alder L.	1391	Bidleman T. F.	885
Alleteo D.	3001	Bierkens J.	2935
Anderson R.D.	1567	Blaise C.	753
Angelini C.	3001	Blok J.	1411
Angerhöfer D.	549	Boberić G.	33
Arai M.	875	Bolla A.	3001
Arillo A.	2797	Bompadre S.	2773
Ascari F.	1033	Bonfanti P. 27	17, 2751, 2859
Aston M. A.	465	Bonsen EM.	1431
		Bordado J. C. M.	1235
Bache K.	1391	Borio O.	975
Bae W.	363	Bowmer C. T.	1317
Bahadir M.	1489	Bowyer R.T.	1531
Bajt O.	33	Brambilla G.	2957
Balchen S.	1241	Broekaert J.A.C.	1431
Balestrini R.	2911	Brotheridge R. M.	2921
Ballarin L.	3035	Bucci S.	3011
Ballschmiter K.	1017, 2599	Buffagni M.	2859
Вагта R.	699	Butte W.	1497
Barrett W. C.	249		
Barriuso E.	1091, 1271	Calamari D.	2847
Bassi M.	3019	Calevro F.	651, 3011
Batinić D.	27	Calliera M.	2839
Batistoni R.	651	Calogirou A.	1207
Bauer R.	899	Calvet R.	1271
Весетта М.	711	Camatini M. 2717,	2751, 2785, 2859
Beck H.	1391	Campani S.	3011
Behnisch P. A.	1457	Camusso M.	2911
Belfroid A. C.	1221	Cantelli D.	2809, 2859
Bellobono I. R.	975, 1033	Capizzi J. L.	1253
Beltrami M.	2885	Cappi C.	2963

Carvalho A. P.	619,	1385	Daming Xue	1169
Casoria P.		2957	Davies M.	1427
Catallo W. J.		143	de Leeuw F. A. A. M.	113
Cater G. L. F.		1073	De Coen W. M.	2677
Cavanna S.		1547	Decraene K.	673
Celis R.		1091	Dell'Orto N.	2809
Cerejeira M. J.		2949	Deri P.	651
Chandra P.		785	DeVita W.M.	1447
Chang EE.		237	Dickman M. D.	991
Chang E. E.		593	Dinelli G.	2963
Chastinet C. B. A		2695	Dios G.	577
Chewe D.		1399	Dirilgen N.	771
Chiang P. C.		593	Doldi M.	2785
Chih-yu Chen		1437	Donnelly K. C.	1253
Chino H.	1599,	1613	Dom P. B.	845
Cho Hyeon-Seo		951	Doss G. J.	389
Cho BH.	1599,	1613	Dotti M.	2873
Choudhary G.		801	Duffy L.K.	1531
Chu W.		961	Dyi-Hwa Tseng	1045
Chu I.		159	Dzido D.	2989
Chunxia Wang		327		
Ciccotelli M.		2823	Echols S.	711
Cima F.		3035	Eleftheriadis I.	1423
Cimoli G.		3001	Esposito E.	541
Civitareale C.		2957	Evans S. W.	2921
Cizdziel J. V.		1157	Ewald G.	2833
Clark R. M.		451		
Claxton L. D.		1253	Faganeli J.	33
Coelhan M.		549	Faller S. H.	1157
Colombo A.	2717, 2751,	2823	Falugi C.	2797, 3001
Comber S. D. W.		1413	Federle T. W.	1411
Coniglio L.		3001	Feijtel T. C. J.	1411
Connell D. W.	911, 1263,	1369	Fenglin Yang	1169
Conte C.		2739	Ferrari C. P.	1587
Corbisier P.		2935	Ferrarini A.	2739
Comejo J.		289	Fichet D.	1363
Corradi M. G.		3019	Filippi C.	651
Correia J. F. J. S.		2695	Finizio A.	2839
Cozzolino S.		2957	Fischer R. G.	2599
Creaser C.S.		1399	Flodström S.	393
Crippa S.	2785,		Focardi S.	699, 1501
Crosa G.	2847,		Fossi M. C.	699, 1501
Crosta G. F.		2873	Foster P.	1587
Crum S. J. H.		673	Foxall C.D.	1399
Crunkilton R.L.		1447	Francke W.	63
			Franke S.	63
da Silva E. M.		2695	Friis J. C.	2665
Da Ros L.		3035	Frimmel F. H.	1557

Führ F.	1531	Homelon M	266
Furusawa K.	875	Herrchen M. Hesse S.	265
Fytianos K.	1423	Hilbert G.	1557
a yelmios it.	1423	Hippe T.	1241
Gabrielsen G. W.	2627	Hodge V. F.	559
Gagné F.	753		1157
Galli P.	2983	Højskov C. S. Holm C.	1241
Gang Yu	487	Holoubek I.	2665
Gao Shixiang	1299	Hongxia Yu	495
Garatti E.	1547	Hooftman R. N.	747
Garcia R.	1615	Hooper K.	1317
Gaudio L.	2957	Höss S.	431
Gavilan J. F.	699	Hougard J. M.	1335
Gawlik B. M.	975	Houot S.	2847 1091
Gever H.J.	1497	Huang BangZhou	
Gill U.	549	Huang Hui	1427 1571
Giraldez I.	937	Huang Qinggou	1299
Goerke H.	1283	Huebner H. J.	1253
Gomes J. F. P.	1235	Huntley S.L.	1409
Gomez-Ariza J. L.	937	Huttunen S.	271
Gorbi G.	3019	Huttunen 3.	2/1
Grady, Jr C. P. L.	1411	Ikonomou M. G.	1119
Gu W.	875	In-Liang Jung	2589
Guidi A.	2963	Ishiwata S.	479
Guilhermino L.	385, 619	isiiiwata 5.	4/7
Gupta M.	785	Jackson A. W.	465
Gutenmann W. H.	389, 391	Jacob V.	1587
Guzzella L.	2895	Jacobi H.	209
Guzzi L.	2911	Jacobs H.	1431
		Jager T.	41
Hagenmaier H.	1457	Janssen C. R.	1475, 2677
Haitzer M.	1335	Jastorff B.	559
Hall L.W., Jr	1567	Jayasundera S.	1549
Halling-Sørensen B.	2665	Jia-Lin Wang	1187
Han Sukui	1299	Jianfang Fen	747
Hanaoka K.	443	Jiayin Dai	79, 1419
Hansen H.	801	Jin-Ho Choi	1473
Hanstveit A. O.	1317	Jingwen Chen	1169
Hashimoto S.	951	Jiunn-Fwu Lee	1045
Hattink J.	673	Joab B. M.	1579
Hauff K.	2599	Johnson K. A.	1579
Haukioja E.	1445	Jones K. C.	1457
Hauptvogel C.	1139	Jou CJ. G.	685
Hawker D. W.	911, 1369	Jyh-Cherng Chen	2617
Henkelmann B.	1465	7	
Henriksen E. O.	2627	Kähkönen M. A.	1521
Hermens J. L. M.	633	Kahru A.	301
Hermosin M. C.	289	Kairesalo T.	1521

Kaise T.	443	Lijun Jin	79, 1419
Kaliszan R.	559	Lillemark L.	1241
Kaluzny P.	1587	Lin T. F.	593
Kamiya M.	479	Lindig C.	405
Karen D. J.	1579	Liping Wei	747
Karl H.	1		249, 389, 391
Kato Y.	393	Liu Ping	257
Keeling A. A.	1073	Liu Y.	179
Khalil M. A. K.	1197	Locke M. A.	87
Kilian J.V.	1567	Lopes I. M. C. A.	2695
Kimmel L.	549	Lopes M. C.	619, 1385
Klaus U.	341	Loponen J.	1445
Kleihauer S.	209	Lorenz W.	1489
Klein G.	2935	Lores E. M.	861
Knauth HD.	63	Lovett A.A.	1399
Koistinen J.	219	Luckas B.	1519
Kong F. X.	179	Lykins Jr B. W.	451
Kopec D.	711		
Kopf G.	1139	Ma C. W.	961
Køppen B.	1307	Maestri E.	2739
Kotzias D.	1207	Makino M.	13
Krajnović-Ozretić N	М. 109	Makishima H.	1613
Krass J. D.	559	Maletzky P.	899
Krause S.	421	Manahan S. E.	531
Krauthacker B.	27	Mancino G.	3011
Kreuger J.	189	Manfio G. P.	541
Krivobok S.	523	Manninen P.K.G.	1509
Krock B.	1519	Maqueda C.	1063
Kuitunen M.	1509	Marchante E. M. D.	C. 2695
Kumaraswamy S.	661	Marin M. G.	3035
Kumarathasan P.	159	Markuszewski M.	559
Kunito T.	1599, 1613	Marmiroli N.	2739, 2761
		Maršálek B.	495
Lahaniati M.	1207	Marsili L.	1501
Lahtiperä M.	219, 2653	Martin R. S.	531
Lammel G.	1603	Martin M. H.	465
Lamppu J.	271	Martin F.	1063
Larsen B. R.	1207	Martinotti W.	2911
Larson R. J.	1411	Maślikowska B.	2975
Larsson-Kovach 1	·M. 249	Mastrangelo V.	2773
Lehtonen M.	219	Matallo M. B.	577
Lempa K.	1445	Matozzo V.	3035
Leonzio C.	699	Matsubara C.	443
Leung K. M. C.	991	Matsumoto S.	1599, 1613
Lewis B.L.	1567	McAvoy D. C.	1411
Li Qin	1571	McConnell L. L.	885
Liansheng Wang	79, 747, 1419	McKinney M.	431
Lien N.T.H.	1475	McNab W. W. Jr	925

Mehra R. K.	363	Paasivirta J.	2653
Melodia F.	2797	Pan Guo	79
Metzig G.	1603	Panigada S.	1501
Miehlich G.	63	Pantsar-Kallio M.	1509
Migliore L.	2957	Pao-Mei Liao	1045
0	, 1615		49, 1391
Ming-Yen Wey	2617	Рагга О.	699
Mingorance M. D.	577	Paulillo S. M.	541
Miramand P.	1363	Pegiadou S.	1423
Mirjouchkine E.	523	Peijnenburg W. J. G. M.	1169
Mittelstaedt W.	1531	Pen-Chi Chiang	237
Mohamed S.	341	Pennock J. R.	861
Mohammed S. A.	103	Peña A.	577
Molin S.	1487	Pereira T.	2949
Molinari G. P.	1547	Peters L.	1427
Monciardini P.	2761	Petreas M. X.	431
Morale A.	3001	Petrovic A. M.	249
Morales E.	937	Petrović S.	1109
Moreno A. J. M.	2695	Pi-Tsui Wen	1045
Morillo E.	1063	Picer M.	607
Morita M.	951	Pihlaja K.	1445
Morris J. S.	531	Podini D.	2761
Morsi Abd-El-Monem H.		Prichard A.K.	1531
	3019	0.0000000000000000000000000000000000000	
Muir D. C. G.	1395	Principato G.	2773
Müller J. F.	1369	Puglisi P.	2739
Muntau H.	975	Pütz Th.	1531
Mutti I	2739	Oi Min	1571
Manager IV	1500		257
Nagaoka K.	1599	Qian Yi	231
Nakagawa R.	1483	Daniel Maria	2011
Namieśnik J.	2645	Ragghianti M.	3011
Nani B.	1501	Rai U. N.	785
Neu T.	1139	Raikos N.	1423
Newton K. E.	2921	Ramakrishnan B.	661
Niedan V.	421	Ramos E. U.	633
Notarbartolo di Sciara G.	1501	Randall D. J.	1263
Notarianni V.	2839	Rantalainen AL.	1119
		Rantio T.	2653
Occhipinti Ambrogi A.	2983	Rasmussen R. A.	1197
Oetjen K.	1	Rastelli E.	1547
Ohlenbusch G.	1557	Rath Amarendra K.	661
Oikari A.	219	Rath Arun K.	661
Olszewska C.	2645	Rätsep A.	301
Ossipov V.	1445	Rautio P.	271
Otson R.	159	Rebecchi L.	2963
Otsuka S.	1599	Regina G.	2739
Oyaizu H. 159	9, 1613	Regoli F.	2773
Ozretić B.	1109	Regula I.	2703

Reid C. M. 249.	, 391	Soares A. M. V. M. 619, 13	385,2695
Reiman R.	301	Sobral O. M. F.	2695
Reiner E.	27	Socias-Viciana M. M.	289
Richterich K.	319	Soimasuo M.	219
Rimkus G.G.	1497	Soltan M. E.	735
Rivas L.	1033	Sorensen D. L.	103
Roby D.D.	1531	Sosak-Świderska B. 297	5, 2989
Roche A.	1587	Spiteller M.	341
Rogers I. H.	1119	Spliid N. H.	1307
Rogers H. R.	1413	Sripongpun G.	911
Rojíčková-Padrtová R.	495	Steber J.	319
Romero E.	577	Steinbach K.	1079
Rossi D.	2885	Steinberg C.	1335
Ruey-an Doong	2563	Stephens R. D.	431
Ruiz R.	925	Stern G. A.	1395
Russo P.	3001	Stork G.	1079
		Sung-Ho Kong	1473
Sabatini M. A.	2963	Sy F. J.	431
Saitoh T.	443	0,1.0.	451
Sakurai T.	443	Tai H. S.	685
Salanitro J. P.	845	Takada-Oikawa N.	443
Sanchez-Hernandez J. C.	699	Tamura M.	875
Sánchez-Rasero F.	577	Terzaghi C.	2859
Schenck K. M.	451	Tittlemier S. A.	1395
Schlacher T. A.	1511	Tješić-Drinković D.	27
Schlacher-Hoenlinger M. A.	20.00	Tkalec M.	2703
Schmidt T. C.	1079	Tomy G. T.	1395
Schoeters G.	2935	Torelli A.	3019
Schöler H. F.	421	Törnqvist L.	189
Schöller C.	1487	Torrents A.	1549
Schramm K.W.	1465	Traexler K.	1567
Schroeter S.	1431	Traunspurger W.	1335
Seigle-Murandi F.	523	Tremolada P.	2839
Sethunathan N.	661	Tripathi R. D.	785
Severinsen M.	41	Tsoukali H.	1423
She J.	431		9, 1613
	257		
Shi Hanchang Shian-chee Wu		Tukia K.	219
	1437	Turska M.	2645
Sijm D. T. H. M.	1221	Tyrawska D.	2989
Silva-Fernandes A.	2949	Tyrawska D.	2975
Sims R. C.	103	** *** **	1610
Sims J. L.	103	Uchida H.	1613
Singla P.	661	Undabeytia T.	1063
Sinkkonen S.	2653		85, 2809
Skaare J. U.	2627	Urhahn T.	1017
Šket B.	33		
Sliggers C. J.	113	Vaes W. H. J.	633
Smeda R. J.	87	van Pul W. A. J.	113

van der Hoeven N.	1317	Winston G. W.	2773
van der Gaag M. A.	113	Wirts M.	1489
van Kammen A.	673	Wisniewski H. L.	845
van Jaarsveld J. A.	113	Witt G.	1465
van Wijngaarden R. P. A.	73	Witte I.	209
Van Den Heuvel R.	2935	Witter B.	63
Vangheluwe M. L.	2677	Wolska L.	2645
Venderbosch P. W. M.	1317	Wu S. S.	1263
Vermeer C.	633	Wübben D.	2573
Verschaeve L.	2935	Wymer L. J.	451
Vetter W.	1519		
Vicari A.	2963	Xie Quan	1169
Vidaković-Cifrek Ž	2703		
Vidal A.	387	Yamashita K.	1599
Viganò L.	2797	Yameogo L.	2847
Vighi M.	2839	Yang R.	1263
Vipond T. E.	845	Yao-Chi Lin	2617
Visita P.	431	Yazhi Zhao	1169
Vismara C.	3027	Yi Wang	327
Volk M.	341	Young D.	711
von Löw E.	1079	Young Ku	2589
Votava-Raić A.	27	Yu-Chun Chiang	237
		Yu-Ling Wei	509
Walker W.J.	1409	Yue Sun	747
Wallin J. M.	1579	Yumita Y.	1483
Wang Liansheng	1299		
Wang Jianlong	257	Zablotowicz R. M.	87
Wang-Hsien Ding	1187	Zanardelli M.	1501
Wanpeng Zhu	487	Zauke GP.	2573
Wärngård L.	393	Zhang Yi	1571
Watts R. J.	1473	Zhang Tong	1571
Weber K.	1283	Zhao Qingxiang	1571
Weltens R.	2935	Zheng Zhang	79, 1419
Wen-huei Chang	2563	Zhihua Yang	487
Westmore J. B.	1395	Zhongbo Wei	79
Wilkins K.	1487	Zhou C. L.	179
Winkler J. J.	431	Zijian Wang	327
Winkler M.	1139	Zygmunt B.	2645



Receive Regular News of Elsevier 's Publications

Elsevier Science mails information on new and existing publications regularly.

If you would like to be added to the mailing list please send us your name and full mailing address, indicating your fields of interest:

ENGINEERING

Energy Sources & Technology, Civil & Structural Engineering, Mechanical Engineering, Electrical & Electronic Engineering, Systems & Control Engineering, Aeronautical & Aerospace Technology, Materials Technology, Chemical Engineering

LIFE SCIENCES & MEDICINE

Biological Sciences (including biochemistry & molecular biology), Agriculture, Immunology, Cancer Research, Pharmacology, Neuroscience, Vision Science, Clinical Medicine

PHYSICAL SCIENCES

Computer Science, Physics, Chemistry, Mathematics, Earth Science, Environmental Science, Materials Science, Space & Planetary Sciences

SOCIAL SCIENCE & HUMANITIES

Sociology, Women's Studies, Psychology, Education, Political Science, Geography, Economics, Management & Business, Linguistics, Information Science, Librarianship, Safety, Transportation



Elsevier Science

Regional Sales Office, Customer Support Department, PO Box 211, 1000 AE Amsterdam, The Netherlands

• Telephone: +31 20-4853757 • Fax: +31 20-4853432

• E-mail: nlinfo-f@elsevier.nl

Elsevier Science

Regional Sales Office, Customer Support Department, 655 Ave of the Americas, New York, NY 10010, USA • Telephone: +1-212-633-3730 • Fax: +1-212-633-3680

• E-mail: usinfo-f@elsevier.com

CO7A05/p6

Did you know that if you are a contributor to any Elsevier Science Book or Journal you are entitled to



30% Discount on all our Books*?









Pergamon



Holland



Excerpta Medica

*(except multi-volume reference works)

Contact your nearest Elsevier Science office in order to obtain a subject catalogue

Elsevier Science, Regional Sales Office, Customer Support Department, PO Box 211, 1000 AE Amsterdam, The Netherlands • Telephone: +31 20-4853757 • Fax: +31 20-4853432 • E-mail: nlinfo-f@elsevier.nl

Elsevier Science, Regional Sales Office, Customer Support Department, 655 Ave of the Americas, New York, NY 10010, USA

* Telephone: +1-212-633-3730 * Fax: +1-212-633-3680 * E-mail: usinfo-1@elsevier.com

